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AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier.

1. - 19. (Cancelled)

20. (Original) A medical device comprising an SCF fiber and a quantity of bioactive agent associated with the SCF fiber.

21. (Original) The medical device of claim 20 wherein the bioactive agent is selected from a group consisting of an anti-microbial agent, a thrombolytic agent, an anti-platelet agent, an anti-coagulation agent, a growth factor or a combination thereof.

22. (Original) The medical device of claim 20 wherein the bioactive agent comprises a thrombolytic agent.

23. (Original) The medical device of claim 20 wherein the bioactive agent comprises tPA.

24. (Original) The medical article of claim 20 wherein the bioactive agent comprises an anti-microbial agent.

25. (Original) The medical device of claim 20 wherein the SCF fiber has a surface area of at least about a factor of 1.5 greater than a corresponding circular fiber with an equivalent diameter.

26. (Original) The medical device of claim 20 wherein the device is configured for placement within a blood vessel without blocking flow through the vessel.

27. (Original) The medical device of claim 20 wherein the device comprises a catheter and wherein the SCF fibers are associated with the inner surface of the catheter.

28. (Original) A tubular medical device comprising a tubular substrate having an interior surface and an exterior surface and at least one SCF fiber associated with at least a portion of one of the surfaces.

29. (Original) The tubular medical device of claim 28 wherein the device comprises a catheter configured for placement within a vessel of a patient.

30. (Original) The tubular medical device of claim 29 wherein the catheter is a microcatheter.

31. (Original) The tubular medical device of claim 28 wherein the SCF fibers are associated with a bioactive agent.

32. (Original) The tubular medical device of claim 31 wherein the bioactive agent comprises heparin sulfate.

33. (Original) The tubular medical device of claim 28 wherein the at least one SCF fiber is associated with at least a portion of the inner surface.

34. (Original) A medical device comprising a non-porous surface at least a portion of which is covered with SCF fibers.

35. (Original) The medical device of claim 34 wherein the non-porous surface comprises a polymer.

36. (Original) The medical device of claim 34 wherein the surface is contoured to match a portion of a structure within a patient.

37. (Original) The medical device of claim 34 wherein the SCF fibers are associated with a bioactive agent.

38. - 46. (Cancelled)

47. (Original) A method for delivering a bioactive agent, the method comprising contacting a patient's body fluids/tissues with an SCF fiber associated with the bioactive agent.

48. (Original) The method of claim 47 wherein contacting of the patient's fluids/tissue comprises implanting a prosthetic device comprising the SCF fiber.

49. (Original) The method of claim 47 wherein contacting of the patient's fluids/tissue comprises delivery of the SCF fiber through a catheter.

50. (Original) The method of claim 49 wherein the SCF fiber is associated with the interior lumen of the catheter.

51. (Original) The method of claim 49 wherein the SCF fiber is associated with a medical device that is delivered through the catheter.

52. (Original) The method of claim 47 wherein the bioactive agent is selected from the group consisting of a thrombolytic agent, an anti-platelet agent, an anti-coagulation agent, a growth factor or a combination thereof.